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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,799	12/30/2003	Pierce Keating	RADIP005	5351
21912 VAN PELT V	7590 09/25/2007	EXAMINER		
VAN PELT, YI & JAMES LLP 10050 N. FOOTHILL BLVD #200			BURD, KEVIN MICHAEL	
CUPERTINO, CA 95014			ART UNIT	PAPER NUMBER
			2611	
			MAIL DATE	DELIVERY MODE
			09/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

,		Application No.	Applicant(s)				
Office Action Summary		10/749,799	KEATING, PIER	CE			
		Examiner	Art Unit				
		Kevin M. Burd	2611				
The MAILING DATE of thi Period for Reply	s communication app	ears on the cover sh	eet with the correspondence a	ddress			
A SHORTENED STATUTORY F WHICHEVER IS LONGER, FRC - Extensions of time may be available under after SIX (6) MONTHS from the mailing da - If NO period for reply is specified above, th - Failure to reply within the set or extended p Any reply received by the Office later than earned patent term adjustment. See 37 CF	OM THE MAILING DA the provisions of 37 CFR 1.13 e of this communication. e maximum statutory period v eriod for reply will, by statute, three months after the mailing	ATE OF THIS COMN 36(a). In no event, however, vill apply and will expire SIX (i , cause the application to bec	MUNICATION. may a reply be timely filed 6) MONTHS from the mailing date of this ome ABANDONED (35 U.S.C. § 133).				
Status			•				
1) Responsive to communication	ation(s) filed on 19 Ju	ılv 2007.					
2a)☐ This action is FINAL .	• •	action is non-final.	•				
3) Since this application is in	,	4	matters, prosecution as to th	ne merits is			
closed in accordance with		-					
Disposition of Claims	·	•	,				
· <u>_</u>	20 io/oro nondina in t	the application					
	4) Claim(s) 1-4,6-22 and 24-29 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
7)☐ Claim(s) <u>1-4,0-22 and 24-</u>	6) Claim(s) 1-4,6-22 and 24-29 is/are rejected.						
8) Claim(s) are subject		r election requiremen	nt .				
	t to restriction and/o	· election requirement	и.				
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>30 December 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
OSS THO ALLASHOU ASTAIRE C	oo dollon for a figt	S. The solution doplo					
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawi 3) Information Disclosure Statement(s) (I Paper No(s)/Mail Date	ng Review (PTO-948)	Pap 5) 🔲 Noti	rview Summary (PTO-413) er No(s)/Mail Date ce of Informal Patent Application er:				

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1. This office action, in response to the amendment filed 7/19/2007, is a non-final office action.

Response to Arguments

2. Applicant's arguments with respect to claims 1-4, 6-22 and 24-29 have been considered but are most in view of the new grounds of rejection.

Drawings

3. Figures 1, 2A, 2B and 2C should be designated by a legend such as --Prior Art—because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 22 and 24-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter

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which applicant regards as the invention. Claims 22 and 24-28 recite and apparatus with no structure. There are no components of the apparatus being claimed in the apparatus claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-4, 6-22 and 24-29 are rejected under 35 U.S.C. 102(b) as being anticipated by Hu et al (US 5,467,294).

Regarding claims 1, 6-18, 22 and 24-29, Hu discloses a method and apparatus for processing a received signal and generating programmable digital sine waves (figure 1 and abstract). A plurality of samples is input and a lookup table generates amplitude signal samples based on the output of a phase accumulator (column 10, lines 63-67). The complex samples are input to Mux 6 and complemented (negated) samples are also provided to Mux 6 (figure 1 and abstract). Switching between these four possible outputs at a higher fundamental (beat) clock frequency results in a translation of the intermediate frequency output to a higher frequency (abstract). The switching is further described in column 11, line 25 to column 12, line 5.

Regarding claims 2-4, Hu discloses sampling the input as stated above.

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Regarding claim 19-21, Hu discloses a method and apparatus for processing a received signal and generating programmable digital sine waves (figure 1 and abstract). A plurality of samples is input and a lookup table generates amplitude signal samples based on the output of a phase accumulator (column 10, lines 63-67). The complex samples are input to Mux 6 and complemented (negated) samples are also provided to Mux 6 (figure 1 and abstract). Switching between these four possible outputs at a higher fundamental (beat) clock frequency results in a translation of the intermediate frequency output to a higher frequency (abstract). The switching is further described in column 11, line 25 to column 12, line 5. The frequency is changed from the intermediate frequency to a higher frequency, which is equivalent to changing the beat coefficient.

Allowable Subject Matter

6. The indicated allowability of claims 5-7, 12-15, 18-21, 23 and 28 is withdrawn in view of the newly discovered reference to Hu et al (US 5,467,294). Rejections based on the newly cited references are stated above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Burd whose telephone number is (571) 272-3008. The examiner can normally be reached on Monday - Friday 9 am - 5 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C. Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kevin M. Burd 9/18/2007

KEVIN BURD
PRIMARY EXAMINER